

PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL SEARCHING AUTHORITY

To:

AMERSHAM HEALTH AS
Attn. Flechsler, Insa
Nycoveien 1-2
P.O. Box 4220 Nydalen
N-0401 Oslo
NORWAY

RECEIVED

25 FEB 2005

Patent Dep. Oslo

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT
OR THE DECLARATION

(PCT Rule 44.1)

<p>Date of mailing (day/month/year) 21/02/2005</p>	
<p>Applicant's or agent's file reference PN0275 - PCT</p>	<p>FOR FURTHER ACTION See paragraphs 1 and 4 below</p>
<p>International application No. PCT/NO 03/00328</p>	<p>International filing date (day/month/year) 01/10/2003</p>
<p>Applicant AMERSHAM HEALTH AS</p>	

1. ☒ The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

☒ **Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

DUE DATE:	21-Apr-2005
FORMALITIES:	MN ~
PAT. OFF:	IF
ON DB:	25-Feb-2005
CASE NO:	PN0275-PCT

2. ☐ The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.


☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within **19 months** from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within **20 months** from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

<p>Name and mailing address of the International Searching Authority</p> <div style="text-align: center;">  </div> <p>European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016</p>	<p>Authorized officer</p> <p style="text-align: center; font-size: 1.2em;">Roy Borst</p>
---	--

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PN0275 - PCT	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/NO 03/00328	International filing date (<i>day/month/year</i>) 01/10/2003	(Earliest) Priority Date (<i>day/month/year</i>) 03/10/2002
Applicant AMERSHAM HEALTH AS		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 7 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/NO 03/00328

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: 1-7
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-7

Claims 1-7 relates to a method of treatment of the human or animal body by surgery or by therapy, as well as diagnostic methods /Rule 39.1(iv). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the method.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/NO 03/00328

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K49/22 A61K47/48 A61B8/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K A61B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/061280 A1 (MATTREY ROBERT F) 23 May 2002 (2002-05-23) page 1, section 1, 2, page 2, section 18 - section 23, page 3, section 26, page 8, section 8, table 2.1, claim 14, page 10, section 98-100	8-13
Y	---	1-7,14
Y	US 2001/010811 A1 (RONGVED PAL ET AL) 2 August 2001 (2001-08-02) page 2, section 14, page 3, section 15, page 5, section 46	1-7,14
A	---	8-13
	--- -/--	
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
° Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the international search 23 December 2004		Date of mailing of the international search report 21. 02. 2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer MALIN SÖDERMAN /EÖ

INTERNATIONAL SEARCH REPORT

International Application No

PCT/NO 03/00328

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01 12071 A (OTTOBONI THOMAS B ;POINT BIOMEDICAL CORP (US); YAMAMOTO RONALD K () 22 February 2001 (2001-02-22) claim 12 claim 1 page 6, line 20 - line 26 ---	6
A	US 2002/102217 A1 (HELLEBUST HALLDIS ET AL) 1 August 2002 (2002-08-01) page 32, section 157 ---	1-14
A	WISNER, ERIK R. ET AL : "Contrast Enhanced Intermittent Power Doppler Ultrasound with Sub-micron Bubbles for Sentinel Node Detection 1" ACADEMIC RADIOLOGY, vol. 9, no. 2, 2002, pages S389-S391, XP002311927 the whole document ---	1-14
A	MATTREY, ROBERT F. ET AL: "Sentinel Lymph Node Imaging with Microbubble Ultrasound Contrast Material 1" ACADEMIC RADIOLOGY, vol. 9, no. 1, 2002, pages S231-S235, XP002311928 the whole document -----	1-14

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/NO 03/00328

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002061280	A1	23-05-2002	AU 3353000 A	25-08-2000
			WO 0045855 A2	10-08-2000
			US 2002197209 A1	26-12-2002

US 2001010811	A1	02-08-2001	US 2003202942 A1	30-10-2003
			AP 890 A	13-11-2000
			AT 237362 T	15-05-2003
			AT 238072 T	15-05-2003
			AU 722735 B2	10-08-2000
			AU 1805197 A	02-09-1997
			AU 726503 B2	09-11-2000
			AU 1884797 A	02-09-1997
			BG 102758 A	30-09-1999
			CA 2246778 A1	21-08-1997
			CA 2246779 A1	21-08-1997
			CN 1213971 A ,B	14-04-1999
			CN 1213972 A	14-04-1999
			CZ 9802625 A3	12-05-1999
			CZ 9802626 A3	17-03-1999
			DE 69720979 D1	22-05-2003
			DE 69720979 T2	26-02-2004
			DE 69721235 D1	28-05-2003
			DE 69721235 T2	05-02-2004
			EA 900 B1	26-06-2000
			EA 1135 B1	30-10-2000
			EE 9800248 A	15-02-1999
			EE 9800249 A	15-02-1999
			EP 1331013 A2	30-07-2003
			EP 0885016 A1	23-12-1998
			EP 0881915 A1	09-12-1998
			ES 2197331 T3	01-01-2004
			ES 2197986 T3	16-01-2004
			WO 2004073750 A1	02-09-2004
			WO 9729782 A1	21-08-1997
			WO 9729783 A1	21-08-1997
			HK 1014872 A1	06-02-2004
			HU 9900812 A2	28-07-1999
			HU 9900813 A2	28-07-1999
			IL 125748 A	23-05-2002
			JP 2000506122 T	23-05-2000
			JP 2000511510 T	05-09-2000
			NO 983420 A	24-07-1998
			NO 983584 A	16-10-1998
			NZ 331372 A	28-01-2000
			NZ 331509 A	28-04-2000
			OA 10839 A	13-08-2001
			PL 328309 A1	18-01-1999
			PL 328406 A1	18-01-1999
			PT 881915 T	30-09-2003
			SK 112698 A3	13-04-1999
			TR 9801613 T2	23-11-1998
			US 6165442 A	26-12-2000

WO 0112071	A	22-02-2001	AU 6635900 A	13-03-2001
			EP 1202671 A1	08-05-2002
			WO 0112071 A1	22-02-2001

US 2002102217	A1	01-08-2002	US 6331289 B1	18-12-2001

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/NO 03/00328

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002102217 A1		AT 249247 T	15-09-2003
		AU 733477 B2	17-05-2001
		AU 4718297 A	22-05-1998
		AU 733495 B2	17-05-2001
		AU 4786697 A	22-05-1998
		AU 4786797 A	22-05-1998
		AU 4786897 A	22-05-1998
		AU 4786997 A	22-05-1998
		AU 4787097 A	22-05-1998
		BG 103438 A	31-01-2000
		BG 103439 A	31-01-2000
		BR 9712683 A	19-10-1999
		BR 9713978 A	02-05-2000
		CA 2269985 A1	07-05-1998
		CA 2270120 A1	07-05-1998
		CN 1440816 A	10-09-2003
		CN 1238700 A	15-12-1999
		CN 1234742 A	10-11-1999
		CZ 9901494 A3	15-09-1999
		DE 69724817 D1	16-10-2003
		DE 69724817 T2	01-07-2004
		EP 1007101 A2	14-06-2000
		EP 0973552 A2	26-01-2000
		EP 0991427 A2	12-04-2000
		EP 0971747 A2	19-01-2000
		EP 0946202 A2	06-10-1999
		EP 0963209 A2	15-12-1999
		ES 2206689 T3	16-05-2004
		WO 9818500 A2	07-05-1998
		WO 9818501 A2	07-05-1998
		WO 9818495 A2	07-05-1998
		WO 9818496 A2	07-05-1998
		WO 9818497 A2	07-05-1998
		WO 9818498 A2	07-05-1998
		HU 0000357 A2	28-06-2000
		JP 2001511765 T	14-08-2001
		JP 2001503407 T	13-03-2001
		JP 2002515889 T	28-05-2002
		JP 2001502719 T	27-02-2001
		KR 2000052829 A	25-08-2000
		KR 2000052830 A	25-08-2000
		NO 991889 A	28-06-1999
		NO 991890 A	28-06-1999
		NZ 335596 A	27-10-2000
		NZ 335799 A	24-11-2000
		US 6264914 B1	24-07-2001
		US 6051207 A	18-04-2000